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dependently of the late Alfred Binet, who directed the psychological laboratory. Professor Piéron, Binet's successor, is now joining forces with the representatives of French pathological psychology, and the institute thus formed is also to encourage the applications of psychology to education and to industry.

UNIVERSITY AND EDUCATIONAL NEWS

THE will of the late Jacob Schiff includes the following bequests:

To the Montefiore Home and Hospital for Chronic Diseases	\$300,000
To the Jewish Theological Seminary of America	150,000
To the Hebrew Union College at Cincinnati	100,000
To the New York University for its School of Commerce and Accounting	50,000
To the Metropolitan Museum of Art	25,000
To the New York Public Library	25,000
To the Zoological Society of the City of New York	25,000
To Harvard University	25,000
To Tuskegee Normal and Industrial Institute	10,000
To Hampton Normal and Agricultural Institute	10,000

At the Medical School of the Johns Hopkins University at least two years of college work, of which one and one third years should be devoted to inorganic and two thirds of a year to organic chemistry, will hereafter be required. Each year's course comprises three class room exercises a week and five to six hours of laboratory work. This represents only a minimal training, and three years' work is advised, including one third of a year devoted to lectures and demonstrations in elementary physical chemistry. After 1923 three years' preparation in chemistry will be required, including at least 240 hours of class room work and 500 hours of laboratory work. The former must include 60 hours in organic chemistry and a short course in physical chemistry; while the latter must include one year's work in quantitative analysis and 120 hours in organic chemistry.

OWING to the death of Alfred J. Moses, professor of mineralogy at Columbia University, the department of mineralogy has been combined with that of geology into a single department of geology and mineralogy. Dr. Lea I. Luquer, now assistant professor of mineralogy has been promoted to be associate professor.

PROFESSOR WILLIAM J. CROZIER, of the department of zoology of the University of Chicago, has been appointed professor of zoology and public health at Rutgers College.

DR. HOMER H. COLLINS, head of the department of biology of the Fresno Junior College at Fresno, California, has become assistant professor of zoology in the University of Pittsburgh.

MR. JOHN PAUL GIVLER, after two years service in the Sanitary Corps, has accepted the headship of the department of biology at the North Carolina College for Women, Greensboro, N. C.

CONRAD THORALDSEN and Isaac Neuwirth have been appointed instructors in the departments of histology and of physiological chemistry, respectively, of the New York Homœopathic Medical College and Fowler Hospital.

ALBERT SALATHE, graduate student in the University of Chicago, has gone to Albany, New York, to be professor of chemistry at the Albany College of Pharmacy.

PROFESSOR E. H. KRAUS, head of the mineralogical department of the University of Michigan, has been made acting dean of the college of pharmacy until a new dean is appointed. Dr. Kraus has for many years been dean of the University of Michigan Summer Session. Mr. Charles G. Stocking has been appointed assistant professor of pharmacy to fill the vacancy caused by the resignation of Professor A. F. Schlichting, who has taken up his work as chief of the Control Laboratories of the William B. Warner Company of Saint Louis.

IN the department of geology, University of Kansas, Dr. Raymond C. Moore, professor of geology and paleontology and state geologist, has been made chairman; Professor Chesley J. Posey, of the University of Minnesota, has

been appointed associate professor of geography; Professor Russell S. Knappen, of the University of Chicago, has been appointed assistant professor of economic geology, and Dr. Walter H. Schoewe, of the Colorado School of Mines, has been appointed assistant professor of geology. Dr. Winthrop P. Haynes, associate professor of geology, is absent on leave and will undertake for the Standard Oil Company of New Jersey explorations in northern Mexico.

At the Carnegie Institute of Technology new appointments have been made as follows: In the division of science and engineering are C. R. Clutter, Lauren C. Hand and Frank E. Rupert, instructors in chemical engineering; R. W. Boreman, W. H. Michner and A. Press, instructors in physics; Charles A. Blodgett and Fred J. Evans, instructors in civil engineering; W. S. McKee, instructor in machine design; David C. Saylor, instructor in mechanical engineering; W. A. Copeland, instructor in metallurgical and mining engineering, W. Z. Price, assistant professor in mining engineering, and C. G. Simpson, instructor in the mechanics department. In the division of industries are Charles B. Walker and F. N. Talley, instructors in chemistry, and James Creech, instructor in press work, in the printing department.

DISCUSSION AND CORRESPONDENCE AN INSTITUTION FOR TROPICAL RESEARCH

TO THE EDITOR OF SCIENCE: The immense importance of the tropics and of tropical products to the future of industry is being more and more widely recognized. The most rapid developments of the future will inevitably lie to the southward since only there can now be found unlimited, unused opportunity. The greatest volume of trade must ultimately flow north and south rather than east and west since east and west have in the main similar products while those of north and south are complementary. The necessity for a much more accurate and extensive knowledge of tropical conditions, products and resources is being realized by many.

Concrete plans for an American institution devoted to tropical research seem first to have been suggested in the Philippines, where such tremendous strides have been taken along these lines since the American occupation of these islands. Director Arthur F. Fischer, of the Philippine Bureau of Forestry, and Dean C. F. Baker, of the College of Agriculture, have been particularly active in this propaganda. When the Roosevelt Memorial Association was formed it occurred to the present writer that the foundation of such an institution would be a most fitting memorial to the memory of that strenuous advocate of the conservation of natural resources and explorer of tropical wildernesses. An outline for the organization of a Roosevelt Memorial Institution for the Study of Tropical America was accordingly drawn up and was submitted to the association but no favorable action was secured.

At the close of the war the National Research Council was organized from what had been the Council for National Defense. It is understood that the importance of tropical problems has been given due consideration by this body, and that committees have been appointed who have submitted reports but that so far no final action has been taken toward formulating a concrete plan for tropical work. The writer has no connection with the Council for National Research but his interest in everything relating to tropical problems is so great that he begs permission to submit the following for the consideration of this body:

OUTLINE FOR THE ORGANIZATION OF THE ROOSEVELT INSTITUTION FOR TROPICAL RESEARCH UNDER THE AUSPICES OF THE NATIONAL RESEARCH COUNCIL

1. This institution should be organized as a special section of the council with a permanent secretary and an office force to collate and index existing knowledge of tropical resources and conditions. A bibliographic card index should be made indicating in what libraries¹ given works can be consulted.

¹ The necessity for such information as this was forcibly brought home to the writer during a recent visit to the libraries of Washington and New